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Appendix B. Definitions

Appropriate Management Response (AMR) – Specific actions taken in response to a wildland fire to implement protection and prescribed fire use objectives. The AMR is based on an evaluation of risks to firefighter and public safety, the circumstances under which the fire is occurring, weather and fuel conditions, natural and cultural resource management objectives, protection priorities, values to be protected, and local, geographic area, and national fire situations.

Ecosystem – An interacting system of interdependent organisms.

- **Ecosystem management** The careful and skillful use of ecological, economic, social, and managerial principles in managing ecosystems to produce, restore, or sustain ecosystem integrity and desired conditions over the long term.
- **Fire Management Plan (FMP)** A strategic plan that defines a program to manage wildland and prescribed fires, and documents the fire management program in the approved land use plan. The FMP is supplemented by operational plans such as the preparedness plan, preplanned dispatch plan, prescribed fire plans, and prevention plan.
- **Fire Management Unit (FMU)** Any land management area definable by objectives, topographic features, access, values-to-be-protected, political boundaries, fuel types, or major fire regimes, that sets it apart from management characteristics of an adjacent unit. FMUs are delineated in Fire Management Plans (FMP). This FMP designates only one FMU for St. Croix National Scenic Riverway because management characteristics are largely uniform across the Riverway.
- **Fire regime** The pattern of fire across a landscape, characterized by frequency, intensity, and type and size of typical fire events, resulting from a unique combination of climate and vegetation.
- **Fuel** The materials burned in a fire: duff, litter, grass, dead branch wood, snags, logs, stumps, weeds, brush, foliage, and, to a limited degree, live vegetation.
- **General Management Plan (GMP)** A planning document that describes broad management goals and objectives for a National Park Service unit.

Hazard fuels – also **hazardous fuels** – Fuels which, when ignited, threaten: public safety, structures and facilities, cultural resources, natural processes, or any other social, political, or economic value. Also, fuels that permit the spread of wildland fires across administrative boundaries except as authorized by agreement. The hazardous condition can be mitigated through hazard mitigation, which is any treatment that reduces the likelihood of ignition, fire intensity, or rate of spread.

Initial attack – The first aggressive suppression action taken on a fire, consistent with firefighter and public safety and values to be protected.

- Mitigation actions Mitigation actions are considered to be those on-the-ground activities that serve to check, direct, or delay the spread of unwanted wildland fire and minimize threats to life, property, and resources. Actions may include mechanical and physical non-fire tasks, specific fire applications, and limited suppression actions. These actions will be used to construct firelines, reduce fuel concentrations, break up vertical fuel continuity, create fuel breaks or barriers around critical or sensitive sites or resources, create "blacklines" through controlled burnouts, and limit fire spread and behavior.
- **National Fire Danger Rating System (NFDRS)** A system to predict several measures of fire probability and resistance to control.
- **Preparedness** Activities that lead to a safe, efficient and cost effective fire management program in support of land and resource management objectives through appropriate planning and coordination. This term replaces presuppression.
- **Prescribed fire** Any fire ignited by management actions to meet specific objectives. A written, approved prescribed fire plan must exist, and NEPA requirements must be met, prior to ignition.
- **Prescribed fire plan** A plan required for each fire application ignited by managers. It must be prepared by qualified personnel and approved by Superintendent prior to implementation, and includes criteria for the conditions under which the project may be conducted (prescription).
- **Prescription** Measurable criteria which: define conditions under which a prescribed fire may be ignited; guide selection of appropriate management responses; and indicate other required actions. Prescription criteria may include safety, economic, public health, environmental, geographic, administrative, social or legal considerations.
- **Resource Management Plan (RMP)** A planning document that describes resource management goals and objectives for a National Park Service unit.
- **Suppression** also **wildland fire suppression** An appropriate management response to wildland fire that results in curtailment of fire spread and eliminates all identified threats from the particular fire. All wildland fire suppression activities provide for firefighter and public safety as the highest consideration while minimizing loss of resource values, economic expenditures, and the use of critical firefighting resources.
- **Wildland Fire** Any non-structure fire, other than prescribed fire, that occurs in the wildland. This term encompasses fires previously called both wildfires and prescribed natural fires.

- **Wildland fire management program** The full range of activities and functions necessary for planning, preparedness, emergency suppression operations, and emergency rehabilitation of wildland fires; prescribed fire operations; and non-fire fuels management to reduce risks to public safety and achieve resource management goals.
- **Wildland Fire Situation Analysis (WFSA)** The decision-making process that evaluates alternative management strategies against selected safety, environmental, social, economic, political, and resource management objectives. Also, the paperwork documenting this process.
- **Wildland fire use** The management of naturally-ignited wildland fires to accomplish specific, prestated, resource management objectives in pre-defined geographic areas outlined in Fire Management Plans. WFU fires are not permitted at the Riverway.

Wildland-urban interface – An area or zone where structures and other human development occur next to or within undeveloped wildland fuel complexes.

Appendix C. Species Lists

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
PLANTS				
Asclepias ovalifolia	Dwarf Milkweed			TH
Allium cernuum	Nodding Wild Onion		TH	
Anemone caroliniana	Carolina Anemone			EN
Arabis missouriensis	Rock Cress	C2		
Aristida tuberculosa	Sea-beach Needlegrass		SC	
Astragalus crassicarpus	Prairie Plum			EN
Aureolaria pedicularia	Fernleaf False Foxglove		TH	
Baptisia alba	White Wild Indigo		SC	
Besseya bullii	Kitten-tails	3C	TH	TH
Calamovilfa longifolia	Sand Reed			TH
Calypso bulbosa	Calypso Orchid			TH
Carex annectens	Yellow-fruited Sedge		SC	
Carex prasina	Drooping Sedge			TH
Carex typhina	Cattail Sedge		SC	
Carex xerantica	Dry Sedge		SC	
Catabrosa aquatica	Brook Grass			EN
Cephalanthus occidentalis	Buttonbush		SC	
Dalea villosa	Silky prairie clover			SC
Decodon verticillatus var. laevigatus	Waterwillow		SC	
Desmodium illinoense	Illinois Tick-trefoil		TH	
Desmodium nudiflorum	Stemless Tick-trefoil		SC	
Drosera anglica	English Sundew		SC	TH
Dryopteris goldiana	Goldie's Fern		SC	
Echinochloa walteri	Walter's Barnyard Grass		SC	
Floerkea proserpinacoides	False Mermaid		TH	
Hamamelis virginiana	Witch-Hazel		SC	
Hydrocotyle americana	American Water-pennywort		SC	
Juglans cinerea	Butternut		SC	
Lechea tenuifolia	Narrow-leaved Pinweed		EN	
Liatris punctata var. nebraskana	Dotted Blazing Star			EN
Lonicera involucrata	Fly Honeysuckle			EN
Lysimachia quadrifolia	Whorled Loosestrife		SC	
Minuartia dawsonensis	Rock Sandwort		SC	
Myriophyllum farwellii	Farewell's Water-milfoil		SC	
Oenothera rhombipetala	Rhombic-petaled Evening Primros	e	SC	
Opuntia fragilis	Brittle Prickly-pear			TH
Orchis rotundifolia	Small Round-leaved Orchis			TH
Panax quinquefolius	Ginseng	3C	SC	

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
PLANTS (con't)				
Parmelia stuppea	Species of Lichen		SC	
Paronychia fastigiata	Forked Chickweed		EN	
Pellaea atropurpurea	Purple Cliff-brake		SC	
Petasites sagittatus	Sweet Coltsfoot			TH
Poa paludigena	Bog Bluegrass	C2	TH	TH
Polygala cruciata	Cross-leaved Milkwort		EN	
Polygonum arifolium var. pubescens	Halberd-leaved Tearthumb		SC	
Prenanthes aspera	Rough White Lettuce			EN
Primula mistassinica	Bird's-eye Primrose	3C		
Ruellia humilis	Toothcup, Wild Petunia		EN	EN
Scutellaria parvula	Small Skullcap			EN
Solidago caesia	Blue-stemmed Goldenrod			EN
Solidago sciaphila	Cliff Goldenrod		SC	
Talinum rugospermum	Prairie Fame-flower	C2	EN	
Tephrosia virginiana	Goat's-rue		SC	
Verbena simplex	Narrow-leaved Vervain		SC	
Waldsteinia fragarioides	Barren Strawberry		SC	
MUSSELS				
Actinonaias ligamentina	Mucket		TH	
Alasmidonta marginata	Elktoe		TH	RULE
Anodonta imbecillis	Paper Pondshell			RULE
Cumberlandia monodonta	Spectaclecase	C2	TH	EN
Cyclonaias tuberculata	Purple Wartyback		TH	EN
Ellipsaria lineolata	Butterfly		TH	
Elliptio crassidens crassidens	Elephant-ear		EN	EN
Elliptio dilatata	Spike		SC	
Epioblasma triquetra	Snuffbox	C2	TH	EN
Fusconaia ebena	Ebonyshell		EN	EN
Lampsilis higginsi	Higgins eye	EN	EN	EN
Lasmigona compressa	Creek Heelsplitter		SC	
Lasmigona costata	Fluted-shell		SC	
Ligumia recta	Black Sandshell		SC	
Megalonaias nervosa	Washboard		TH	
Obovaria olivaria	Hickorynut		SC	
Plethobasus cyphyus	Bullhead			EN
Pleurobema sintoxia	Round Pigtoe			RULE
Quadrula fragosa	Winged Mapleleaf	EN	EN	EN
Quadrula metanevra	Monkeyface		TH	TH
Simpsonaias ambigua	Salamander Mussel	C2	TH	TH
Tritogonia verrucosa	Pistolgrip, Buckhorn		TH	TH

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
BUTTERFLIES AND DRAGONFLIES				
Atrytonopsis hianna	Dusted Skipper		SC	
Erynnis persius	Persius Dusky Wing		EN	
Hesperia ottoe	Ottoe Skipper		TH	
Incisalia irus	Frosted Elfin			TH
Lycaeides idas nabokovi	Nabokov's Blue, Northern Blue		SC	EN
Lycaeides melissa samuelis	Karner Blue Butterfly	EN	EN	
Ophiogomphus anomalis	Extra-striped Snaketail	C2	SC	EN
Ophiogomphus howei	Pygmy Snaketail	C2		TH
Ophiogomphus susbehcha	St. Croix Snaketail		SC	EN
Phyciodes batessi	Tawny Crescent Spot	C2		
Speyeria idalia	Regal Fritillary		SC	EN
FISH				
Acipenser fulvescens	Lake Sturgeon	C2	SC	RULE
Ammocrypta asprella	Crystal Darter	C2	SC	EN
Coregonus artedi	Lake Herring, Cisco			RULE
Cycleptus elongatus	Blue Sucker	C2	SC	TH
Etheostoma microperca	Least Darter		SC	
Hiodon alosoides	Goldeye			EN
Hybopsis aestivalis	Speckled Chub			TH
Ictiobus niger	Black Buffalo		SC	TH
Moxostoma carinatum	River Redhorse			TH
Moxostoma valenciennesi	Greater Redhorse			TH
Notropis amnis	Pallid Shiner		SC	EN
Notropis anogenus	Pugnose Shiner 1928		SC	TH
Opsopoeodus emiliae	Pugnose Minnow		SC	
Percina evides	Gilt Darter		SC	TH
Polyodon spathula	Paddlefish	3C	TH	TH
AMPHIBIANS AND REPTILES				
Apalone mutica	Smooth Softshell		SC	
Chelydra serpentina	Snapping Turtle		SC	
Clemmys insculpta	Wood Turtle		TH	TH
Coluber constrictor	Blue Racer		SC	
Crotalus horridus	Timber Rattlesnake		TH	
Emydoidea blandingii	Blandings Turtle	C2	TH	TH
Eumeces fasciatus	Five-lined Skink		SC	
Hemidactylium scutatum	Four-toed Salamander		SC	
Pituophis melanoleucus	Gopher Snake, Bullsnake		SC	

BIRDS Accipiter cooperii	SCIENTIFIC NAME:	COMMON NAME:	US I	MN	WI
Accipiter gentilisNorthern GoshawkC2Ammodramus henslowiiHenslow's SparrowENTHAmmodramus nelsoniNelson's Sharp-tailed SparrowSCAsio flammeusShort-eared OwlSCButeo lineatusRed-shouldered HawkSCTHCasmerodius albusGreat EgretTHCygnus buccinatorTrumpeter SwanENDendroica ceruleaCerulean WarblerSCTHDendroica kirtlandiiKirtland's WarblerENRULEEmpidonax virescensAcadian FlycatcherSCTHFalco peregrinus anatumAmerican Peregrine FalconENTHENHaliaeetus leucocephalusBald EagleTHSCENLanius ludovicianusLoggerhead shrikeC2THENLarus pipixcanFranklin's GullSCNycticorax violaceusYellow-crowned Night-HeronTHTHOporornis formosusKentucky WarblerTHTHPelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSCSterna forsteriForster's TernSCENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSC2 <t< td=""><td>BIRDS</td><td></td><td></td><td></td><td></td></t<>	BIRDS				
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Haliaeetus leucocephalusBald EagleTHSCLanius ludovicianusLoggerhead shrikeC2THENLarus pipixcanFranklin's GullSCNycticorax violaceusYellow-crowned Night-HeronTHOporornis formosusKentucky WarblerTHPandion haliaetusOspreyTHPelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantPodiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernSCSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENCanis lupusTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Empidonax virescens	Acadian Flycatcher		SC	TH
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Nycticorax violaceusYellow-crowned Night-HeronTHOporornis formosusKentucky WarblerTHPandion haliaetusOspreyTHPelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantPodiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Lanius ludovicianus	Loggerhead shrike	C2	TH	EN
Oporornis formosusKentucky WarblerTHPandion haliaetusOspreyTHPelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantTHPodiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Larus pipixcan	Franklin's Gull		SC	
Pandion haliaetusOspreyTHPelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantPodiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSCanis lupusTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Nycticorax violaceus	Yellow-crowned Night-Heron			TH
Pelecanus erythrorhynchusAmerican White PelicanSCPhalocrocoras auritusDouble-crested CormorantPodiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSCanis lupusTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Oporornis formosus	Kentucky Warbler			TH
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Podiceps auriitusHorned GrebeTHPodiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Pelecanus erythrorhynchus	American White Pelican		SC	
Podiceps grisegenaRed-necked GrebeENSeiurus motacillaLouisiana WaterthrushSCSterna caspiaCaspian TernENSterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Phalocrocoras auritus	Double-crested Cormorant			
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Sterna forsteriForster's TernSCENSterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENCanis lupusLynxC2RULELynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Seiurus motacilla	Louisiana Waterthrush		SC	
Sterna hirundoCommon TernTHENWilsonia citrinaHooded WarblerSCTHMAMMALSTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Sterna caspia				
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MAMMALSTimber WolfENSCENCanis lupusTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Sterna hirundo	Common Tern		TH	EN
Canis lupusTimber WolfENSCENLynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Wilsonia citrina	Hooded Warbler		SC	TH
Lynx canadensisLynxC2RULEMartes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	MAMMALS				
Martes americanaPine Marten3CENMyotis septentrionalisNorthern MyotisSC	Canis lupus	Timber Wolf	EN	SC	EN
Myotis septentrionalis Northern Myotis SC	•				RULE
y 1	Martes americana	Pine Marten	3C		EN
Pipistrellus subflavus Eastern Pipistrelle SC	Myotis septentrionalis	Northern Myotis			
	Pipistrellus subflavus	Eastern Pipistrelle		SC	

EN-Endangered

TH – Threatened

C2 – Candidate (not enough data to support listing)

3C – Former candidate (more abundant than once thought)

SC – Special concern

RULE – Protected or regulated (by state or federal legislation or policy)

NOTE: ADDITIONAL RARE, THREATENED, OR ENDANGERED SPECIES MAY OCCUR WITHIN THE BOUNDARIES OF THE RIVERWAY - HOWEVER, HARD DATA IS CURRENTLY LACKING TO CONFIRM SUCH SPECIES' PRESENCE

Information obtained from the Minnesota Natural Heritage Program (1995) and the Wisconsin Natural Heritage Program (1993 and 1995). The MN data included rare occurrences within the SACN and LOSA statutory boundaries, and the WI data included rare features for townships bordering SACN. Additional information obtained from the following reports:

- Doolittle, C. J. 1988. <u>Distribution and Relative Abundance of Freshwater Mussels in the Saint Croix National Scenic Riverway</u>. Cable Natural History Museum Sigurd Olson Environmental Institute, Ashland, WI.
- Heath, D. J., and P. W. Rasmussen. 1990. <u>Results of Base-Line Sampling of Freshwater Mussel</u>
 <u>Communities for Long-Term Monitoring of the Saint Croix National Scenic Riverway.</u>
 <u>Minnesota and Wisconsin</u>. Prepared for USDI, NPS, St. Croix NSR, by WIDNR, Madison, WI.

Judziewicz, Emmet J. 1994. FINAL REPORT: Inventory and Monitoring of Rare Vascular Plants, St. Croix National Scenic Riverway, Minnesota and Wisconsin. Department of Botany, University of Wisconsin, Madison, WI.

Maercklein, R.A. and T. O'Halloran. 1999. A Checklist of Birds at St. Croix National Scenic Riverway. Unpublished document.